

Manual Handle Type Pulse Generators

ENH Series



Features

- Ideal for manual pulse input applications including NC machinery and milling machines
- Terminal connection type
- Resolutions: 25, 100 pulses per revolution
- Power supply:
5 VDC \pm 5%, 12 - 24 VDC \pm 5%

Specifications

Model	ENH-□-□-T-□	ENH-□-□-V-□	ENH-□-□-L-5
Resolution	25 / 100 PPR model		
Control output	Totem pole output	Voltage output	Line driver output
Output phase	A, B	A, B	A, B, \bar{A} , \bar{B}
Inflow current	\leq 30 mA	-	\leq 20 mA
Residual voltage	\leq 0.4 VDC \equiv	\leq 0.4 VDC \equiv	\leq 0.5 VDC \equiv
Outflow current	\leq 10 mA	\leq 10 mA	\leq -20 mA
Output voltage (5 VDC\equiv)	\geq (power supply -2.0) VDC \equiv	-	\geq 2.5 VDC \equiv
Output voltage (12 - 24 VDC\equiv)	\geq (power supply -3.0) VDC \equiv	-	-
Response speed ⁰¹⁾	\leq 1 μ s	\leq 1 μ s	\leq 0.2 μ s
Max. response freq.	10 kHz		
Max. allowable revolution ⁰²⁾	Normal: \leq 200 rpm, Peak: \leq 600 rpm		
Starting torque	\leq 0.098 N m		
Allowable shaft load	Radial: \leq 2 kgf, Thrust: \leq 1 kgf		
Unit weight (packaged)	\approx 260 g (\approx 330 g)		
Approval	CE ENEC	CE EAC	ERC

01) Based on cable length: 1 m, I sink: 20 mA

02) Select resolution to satisfy Max. allowable revolution \geq Max. response revolution

$$[\text{max. response revolution (rpm)} = \frac{\text{max. response frequency}}{\text{resolution}} \times 60 \text{ sec}]$$

Model	ENH-□-□-T-□	ENH-□-□-V-□	ENH-□-□-L-5
Power supply	5 VDC \pm 5% (ripple P-P: \leq 5%) / 12 - 24 VDC \pm 5% (ripple P-P: \leq 5%) model		5 VDC \pm 5% (ripple P-P: \leq 5%)
Current consumption	\leq 40 mA (no load)		\leq 50 mA (no load)
Insulation resistance	Between all terminals and case: \geq 100 M Ω (500 VDC \equiv megger)		
Dielectric strength	Between all terminals and case: 750 VAC \sim 50 / 60 Hz for 1 minute		
Vibration	1 mm double amplitude at frequency 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 2 hours		
Shock	\lesssim 50 G		
Ambient temp.	-10 to 70 °C, storage: -25 to 85 °C (no freezing or condensation)		
Ambient humi.	35 to 85%RH, storage: 35 to 90%RH (no freezing or condensation)		
Protection rating	IP50 (IEC standard)		
Connection	Terminal block type		



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